# SUPPLEMENTAL Notice of Allowability

Application No.	Applicant(s)	Applicant(s)		
10/765,307	MIDDLETON, BRUCE PETER	MIDDLETON, BRUCE PETER		
Examiner	Art Unit			
MANSOUR M. SAID	2629			

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The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT THE Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this apport or other appropriate communication 3HTS. This application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to <u>10/16/06</u> .			
2. The allowed claim(s) is/are <u>1-20</u> .			
3. Acknowledgment is made of a claim for foreign priority una   All   b) Some*   c) None   No	been received.  been received in Application No uments have been received in this r  of this communication to file a reply of ENT of this application.  ted. Note the attached EXAMINER's is reason(s) why the oath or declarate be submitted.  on's Patent Drawing Review ( PTO-S  Amendment / Comment or in the Or  Amendment / Comment or in the Or  B4(c)) should be written on the drawing header according to 37 CFR 1.121(di  it of BIOLOGICAL MATERIAL m	national stage applicate complying with the recomplying attached stacked flice action of the lip.	ouirements  OTICE OF
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary ( Paper No./Mail Date 7. ☑ Examiner's Amendm 8. ☑ Examiner's Statemen 9. ☐ Other	(PTO-413), e nent/Comment	dance

#### **DETAILED ACTION**

#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Middleton, Bruce on October 16, 2006.

2. The application has been amended as follows.

# IN THE CLAIMS

In claim 8, line 2, after "whereby" please add –the gesture termination signal is a reduction in normal force below a threshold--.

# **Supplemental**

# Allowable Subject Matter

#### 3. Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-20 are allowed since certain key features of the claimed invention are not taught or fairly suggested by prior art. In claim 1, the interpretive circuitry is configured to distinguish at least two meaningful ranges of the normal variable, detect transitions between said two ranges, and

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interpret such transitions in at least one direction as gesture termination signals; distinguish multiple target zones within the input space, and test for indication value on a substantially continuous basis, where indication value expresses whether any target zone is indicated and if so which, where a target is indicated if the contemporaneous input value lies within it; upon detection of a change in indication value, register the new value and transmit it to the displaycontrol circuitry; maintain a mapping identifying assignments of possible generands to target zones; upon detection of gesture termination, consult the registered indication value to determine whether any target zone is indicated, and if so consult the mapping to determine whether any generand is associated with the indicated target zone, and if so generate it; the display-control circuitry is configured to generate an image which includes a menu comprising an array of menu features; maintain a list of associations between particular ones of said menu features and particular ones of said target zones; upon receipt of a signal expressing a change in indication value, modify the image in a manner which visually identifies any menu feature associated with an indicated target zone as indicated, and visually identifies all other menu features as not indicated; whereby tentative selection display is established, and the user is provided with continuous feedback during transits". In claim 20, "interpretive and display-control circuitry, identify trajectory segments as gestures in accordance with a parsing rule which distinguishes two meaningful ranges of the normal force, one of which is a gesture range and the other of which is a transit range, such that the input space is divided into a gesture zone and a transit zone, and defines entry into the gesture zone as gesture initiation and exit from the gesture zone as gesture termination; whereby gestures are trajectory segments which begin at a point of entry

into the gesture zone, remain continuously within the gesture zone, and end at a point of exit

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from the gesture zone; associate possible output signals or generands with gestures in accordance with a rule which identifies a set of criteria which return values when applied to a gesture and defines a mapping between possible sets of these values and generands; the display-control circuitry is configured to generate an image which includes a menu comprising an array of menu features; upon receipt of a signal identifying a menu feature as indicated, modify the image in a manner which identifies the menu feature as indicated. The closest prior art Shkolnikov (2004/0263479 A1) teaches an input means include at least one selector, a plurality of keys to perform all commonly used functions including entering alphanumeric text and data into device, Levy (5,973,621) teaches a keypad device comprising a finger presses at an interstice, it presses on an area approximately equal to a standard key cap, but it actuating a plurality of key switches rather than only one ... a sealed cursor control device placed with the key matrix a indentation in a non-exposed side near the center of a plurality of individually actualtable key switches, however, singularly or in combination with other prior art, fail to anticipate or render the above underlined limitations obvious.

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4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hohl et al. (2005/0140659 A1) teaches a data entry and display apparatus and methods that provide greater efficiency in data processing devices.

Rekimoto (2006/0001649 A1) teaches an information input apparatus comprises a key and a proximity sensor.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mansour M. Said whose telephone number is 571-272-7679. The examiner can normally be reached on Monday through Thursday from 8:30-6:00 P.M. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR Application/Control Number: 10/765,307

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mansour M. Said

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